

Special Issue

Pollution Process and Microbial Responses in Aquatic Environment

Message from the Guest Editors

Nutrients, such as phosphorus and nitrogen, and pollutants, such as heavy metals, microplastics, antibiotics, and PFASs, are released into the surface aquatic environment from agricultural, industrial, and municipal sources, posing risks to human health. As significant mediums in the aquatic environment, the overlying water, sediment, and organisms play crucial roles in the migration and transformation of these pollutants. The physical and chemical properties, the environmental conditions at the sediment–water interface, and the microbial communities are all important factors influencing the environmental behavior of pollutants. In addition, the migration and transformation process of pollutants in aquatic environment can alter properties of water and sediment as well as interface conditions, thus affecting microbial activities. This Special Issue solicits articles on scientific issues such as the pollution processes and mechanisms in aquatic environment as well as the influence and responses of the microbial communities to the processes. [...] For further reading: https://www.mdpi.com/journal/water/special_issues/4B4091O68Q

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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